

APPARATUS AND METHOD TO IMPLEMENT A FLEXIBLE HUB-SPOKE  
SATELLITE COMMUNICATIONS NETWORK

ABSTRACT OF THE DISCLOSURE

A multi-beam satellite comprises an input section receiving a plurality of first spot beams and an output section transmitting a plurality of second spot beams. A payload architecture is coupled between the input section and output section. It flexibly and selectively switches and filters the first plurality of spot beams received by the input section and provides signals to the output section to be transmitted as the second plurality of spot beams.